

## Amendments to the Claims

### Claims 1-11 (Cancelled)

12. (Currently Amended) A method for depositing a phosphor pattern on an article using a direct-write tool, comprising the steps of providing a particulate suspension of phosphor particles, wherein said particles are substantially spherical and have a weight average particle size of from about 0.1  $\mu\text{m}$  to about 20  $\mu\text{m}$  and depositing said particulate suspension on said article using a direct-write tool that is controllable over an x-y grid.

13. (Original) A method as recited in Claim 12, wherein said average particle size is from about 0.3  $\mu\text{m}$  to about 10  $\mu\text{m}$ .

14. (Original) A method as recited in Claim 12, wherein said particles comprise metal oxide phosphor particles.

15. (Original) A method as recited in Claim 12, wherein said particles comprise metal sulfide phosphor particles.

16. (Original) A method as recited in Claim 12, wherein said article is a panel for a flat panel display.

17. (Original) A method as recited in Claim 12, wherein said phosphor particles have an apparent density of not greater than about 20 percent of the theoretical density of the phosphor compound.

18. (Original) A method as recited in Claim 12, wherein said phosphor particles comprise hollow particles.

19. (Original) A method as recited in Claim 12, wherein said direct-write tool is an automated syringe.

20. (Original) A method as recited in Claim 12, wherein said direct-write tool is an ink-jet.

### Claims 21-23 (Cancelled)

24. (Currently Amended) A method for forming a flat panel display, comprising the steps of:

- a) providing a flat panel display screen;
- b) depositing at least first phosphor particles on said display screen, wherein said step of depositing comprises using a direct-write tool controllable

over an x-y grid to deposit a liquid suspension comprising said first phosphor particles in predetermined pixel regions wherein said first phosphor particles have an average size of not greater than about 20  $\mu\text{m}$  and a substantially spherical morphology.

25. (New) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 80 weight percent of said phosphor particles are not larger than twice said average particle size.

26. (New) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 90 weight percent of said phosphor particles are not larger than twice said average particle size.

27. (New) A method as recited in Claim 12, wherein said particulate suspension comprises a water-based liquid vehicle.

28. (New) A method as recited in Claim 12, wherein said particulate suspension has a viscosity of not greater than about 30 centipoise.

29. (New) A method as recited in Claim 12, wherein said phosphor pattern comprises predetermined pixel regions.

30. (New) A method as recited in Claim 24, wherein said flat panel display is a field emission display.

31. (New) A method as recited in Claim 24, wherein said flat panel display is a plasma display panel.

32. (New) A method as recited in Claim 24, wherein said phosphor particles have an average size of from about 0.3  $\mu\text{m}$  to about 10  $\mu\text{m}$ .

33. (New) A method as recited in Claim 24, further comprising the step of depositing at least second phosphor particles on said display screen, wherein said step of depositing comprises using said direct-write tool controllable over an x-y grid to deposit said second phosphor particles in said predetermined pixel regions wherein said second phosphor particles have an average size of not greater than about 20  $\mu\text{m}$  and a substantially spherical morphology and have a composition different than said first phosphor particles.

34. (New) A method as recited in Claim 24, wherein said direct-write tool is an ink-jet device.

35. (New) A method as recited in Claim 24, wherein said phosphor particles comprise metal oxide phosphor particles.

36. (New) A method as recited in Claim 24, wherein said phosphor particles comprise metal sulfide phosphor particles.

37. (New) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 80 weight percent of said phosphor particles are not larger than twice said average particle size.

38. (New) A method as recited in Claim 12, wherein said phosphor particles have a size distribution wherein at least about 90 weight percent of said phosphor particles are not larger than twice said average particle size.